

DISASSEMBLY

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ACCESSORY PARTS LIST

60-311-217	Screen mounting screw
20-416-001	Screen leg
10-990-176	TV screen
10-990-286	TV screen wall mounting assembly
10-990-263	TV alignment string
30-533-033	Small TV knob
30-513-004	Medium knob with shaft extender
30-533-042	Medium knob
85-953-009	UHF no. inserts
30-513-005	Tuner knob
85-954-036	Instruction manual
10-990-223	Cabinet face trim assembly
30-427-026	Dress panel (1000A)
30-427-025	Cover plate
30-516-005	Channel selector cover
20-416-002	Speaker fan grille
40-119-001	Fan
10-990-333	Fan chamber filter assembly
85-863-024	Speaker fan filter
60-311-243	Nylon flat head screw
60-311-259	Front cabinet mounting screws
60-311-258	Rear cabinet mounting screws
10-990-184	Cabinet top
10-990-185	Cabinet bottom
80-000-051	Speaker
85-954-041	Service manual

4.0 MECHANICAL DISASSEMBLY PROCEDURES

WARNING

MAKE SURE ALL ELECTRICAL POWER IS DISCONNECTED FROM THE SET BEFORE STARTING DISASSEMBLY PROCEDURES.

CAUTION

NEVER HOLD RECEIVER BY CABINET ONLY, ALWAYS SUPPORT BY METAL CHASSIS.

4.1 TOOLS REQUIRED

The following tools are required to remove the cabinet and trim parts, to make accessible electronic components for troubleshooting and/or replacement.

- a. Removal hook (available from Advent)
- b. Phillips screwdriver (#1)
- c. Phillips screwdriver (#2)
- d. Berillium Phillips screwdriver (necessary to tighten yoke clamps on tubes)
- e. Blade screwdriver (3/16 inch)
- f. Blade screwdriver (short shank)
- g. Set of hex nut drivers
- h. Allen wrench (5/64 inch)
- i. Soldering iron

4.2 HIDDEN CONTROLS PLATE REMOVAL

1. Using an Allen wrench (5/64"), remove the two 6-32 button socket machine screws and washers from the hidden controls cover plate on the front panel assembly.
2. Lift off hidden controls cover plate.

4.3 GRILLE AND AIR FILTER REMOVAL AND CLEANING

1. Remove the two slotted nylon speaker/fan grille screws (6, Figure 4-1).
2. Using a blade screw driver carefully pry the Speaker/Fan Grille (5, Figure 4-1) forward around the edges until it can be removed.

3. Remove both pieces of the foam filter material, and clean by shaking or washing. Dry before re-installing. (On reassembly, be certain front filter is installed between Speaker/Fan Grille and tabs on cabinet).

4.4 SPEAKER REMOVAL

1. Remove grille and air filter (see section 4.3).
2. Remove the four (4) Speaker Mounting Bracket Screws and flat washers (1, Figure 4-3) from the speaker mounting flange.
3. Using a blade screwdriver, gently pry the speaker mounting flange from the chassis and unsolder the two leads to the speaker, noting polarity (one lead is ribbed).
4. Remove the four (4) Phillips head screws, flat washers, lock washers and nuts from the speaker.
5. Remove speaker from mounting bracket. Save gasket putty (tradename "Mortite") for reuse when installing new speaker.

NOTE

WHEN REINSTALLING SPEAKER, ROTATE SPEAKER MOUNTING FLANGE SO THAT SPEAKER IS ANGLED UPWARD.

4.5 FAN REMOVAL

1. Remove grille and filter (see section 4.3).
2. Remove the Fan Insulator.
3. Unsolder the two leads to the fan motor.
4. Remove four Phillips screws, lock washers and nuts from fan assembly.
5. Remove fan assembly through hole in front of chassis.

4.6 CABINET REMOVAL (TOP HALF)

CAUTION

NEVER USE REMOVAL HOOK AROUND SHROUDS (2, FIGURE 4-2) OF TUBES.

1. Using the Removal Hook, insert at one top corner lip of Face Trim (4, Figure 4-1) and *gently* pull forward, gradually moving around the total Face Trim until removal is accomplished.

NOTE

A TEARING NOISE IS NORMAL.

2. Remove the four (4) Phillips screws in the corners of the tunnel assembly (bottom rear of set).
3. Remove the two (2) Phillips screws (1, Figure 4-2) from the tube Bulkhead (4, Figure 4-2).
4. Remove Hinged Clips directly behind Phillips screws removed in step 4 above by folding forward.

NOTE

BE CAREFUL CLIPS DO NOT FALL INTO CHASSIS.

5. Standing behind the set, with one hand in the tunnel assembly and one on the front of the cabinet top, gently lift the cabinet top straight up until the edge above the control panel is just high enough to clear the controls. Now carefully pull the cabinet top straight back until it is clear of the set.

4.7 OPENING MAIN CHASSIS DOOR ASSEMBLY (A100)

1. Remove sub-panel retaining screw (3, Figure 4-4).
2. Remove Main Chassis Door Screws (6, Figure 4-4).
3. Gently open door several inches and stop.
4. Disconnect the in-line connectors on the yellow leads to the tube bases.
5. Carefully swing the door open.

4.8 RAISING THE SUB-PANEL ASSEMBLY (A300)

1. If the door is closed, remove the sub-panel retaining screw (3, Figure 4-4).
2. Remove the Detail and Contrast Control knobs.
3. Remove one hex head screw (1, 5, Figure 4-4) from each side of the sub-panel assembly.
4. Swing the sub-panel assembly up on sub-panel support arms and lock in position by sliding straight down.

CAUTION

WHEN LOWERING SUB-PANEL BE CAREFUL NOT TO PINCH ANY WIRES BETWEEN THE SUB-PANEL AND THE SUPPORT ARMS, AND BE CERTAIN THAT THE BOARD BRACKET TABS ENTER THE APPROPRIATE SUB-PANEL SLOTS (4, FIGURE 4-6).

4.9 PROJECTION TUBE REMOVAL (Procedure to be followed after door has been opened)

NOTE

THIS PROCEDURE IS FOR REMOVING ONE TUBE, BUT APPLIES TO ALL THREE TUBES.

WARNING

SAFETY GLASSES SHOULD BE WORN AT ALL TIMES WHEN HANDLING PROJECTION TUBES.

1. Disconnect the CRT Socket from the base of the tube.
2. Disconnect the deflection yoke and focus coil cables at the Yoke Connector Bracket.
3. Disconnect the HV anode connector from the anode voltage splitter assembly. If the red CRT is being removed, remove the splitter bracket assembly from the tube girdle.

4. Loosen the three outside Tube Mounting Screws (6, Figure 4-2) on the Tube Bulkhead (4, Figure 4-2).
5. Remove the Inside Tube Mounting Screw (3, Figure 4-2) nearest the center of the bulkhead.
6. Remove the three Outside Tube Mounting Screws and lock washers loosened in step 4 above, leaving the topmost screw for last.
7. *Gently* pull the tube forward and out of the receiver, holding it by the plastic corrector lens shroud.

CAUTION

DO NOT HOLD TUBE BY ITS NECK.

NOTE

WHEN REINSTALLING TUBE, PHOSPHOR TARGET MUST BE
ORIENTED HORIZONTALLY, WITH WIDER EDGE UP.

4.10 TUNING CONTROL ASSEMBLY (A500) REMOVAL

1. Remove cabinet top (see section 4-6).
2. Remove all sub-panel control knobs.
3. Remove the five (5) dress panel retaining screws (2, Figure 4-4).
4. Lift Dress Panel from sub-panel assembly.
5. Raise the sub-panel assembly (See section 4-8).
6. Disconnect the two cables from the tuning assembly (J/P-6 and J/P-15).
7. Remove the six (6) securing screws (1, Figure 4-6) to free the assembly from the chassis.

4.11 POWER SUPPLY CHASSIS ASSEMBLY (A200) REMOVAL

1. Remove the +15 volt/30 volt regulator board (5, Figure 4-5).
2. Remove the hex bolt and screw from the Transformer Mounting Strap and Screw (9, figure 4-5).
3. Tilt the receiver sideways and place not more than five to six inches of books underneath the power supply side for temporary support.

4. Using a short shank blade screwdriver and hex nut driver, loosen (do not remove) the two Transformer Bracket Mounting Screws (6, Figure 4-3).
5. Disconnect the three Power Supply Connecting Cables (7, Figure 4-5).
6. Remove the four Phillips head power supply mounting screws.
7. Gently lift the power supply assembly (A200) from the receiver.

NOTE

IF REMOTE-CONTROL, THE TRANSFORMER BRACKET MOUNTING SCREW (STEP 4) NEAREST THE REAR OF THE SET MUST BE REMOVED, SO THAT THE POWER SUPPLY ASSEMBLY CAN BE SLID (INSTEAD OF LIFTED) OUT WITHOUT INTERFERING WITH THE REMOTE POWER CONTROL BRACKET.

4.12 REMOVING CABINET BOTTOM (7, Figure 4-4)

1. From the front of the receiver, lift and tilt the set back about eight inches and place a temporary brace (books, etc.) no more than four to five inches high, directly under the Center Foot (8, Figure 4-3) of the chassis.
2. Remove two Cabinet Bottom Screws (7, Figure 4-3) and lock washers from the Belly Pan (7, Figure 4-3).
3. Remove the temporary brace from beneath the receiver and *gently* set the receiver back on the floor.
4. Open the main chassis door assembly. (See 4.7 Opening Main Chassis Door Assembly)
5. Remove the four slotted screws and lock washer (4, 8, 13, 16, Figure 4-5) from inside the chassis walls.
6. Remove the Cabinet Bottom (7, Figure 4-4) by gently pulling forward from the front of the receiver.

4.13 CABINET REASSEMBLY

NOTE

CAREFULLY ALIGN CABINET HALVES WHERE THEY MEET WHEN REASSEMBLING CABINET-ALL EDGES MUST FIT INTO METAL EXTRUSION WHICH JOINS HALVES.

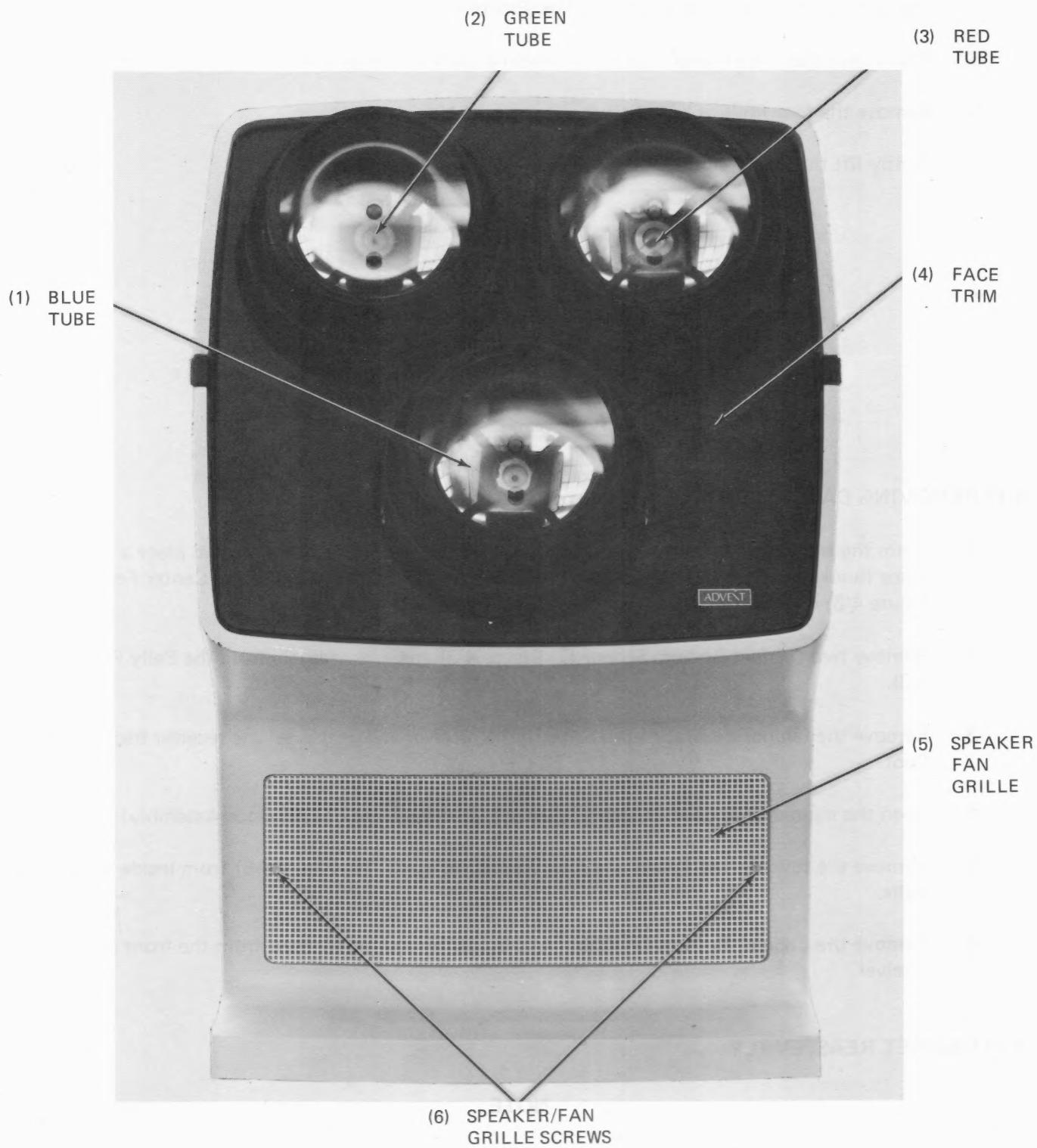


Figure 4-1. FRONT VIEW

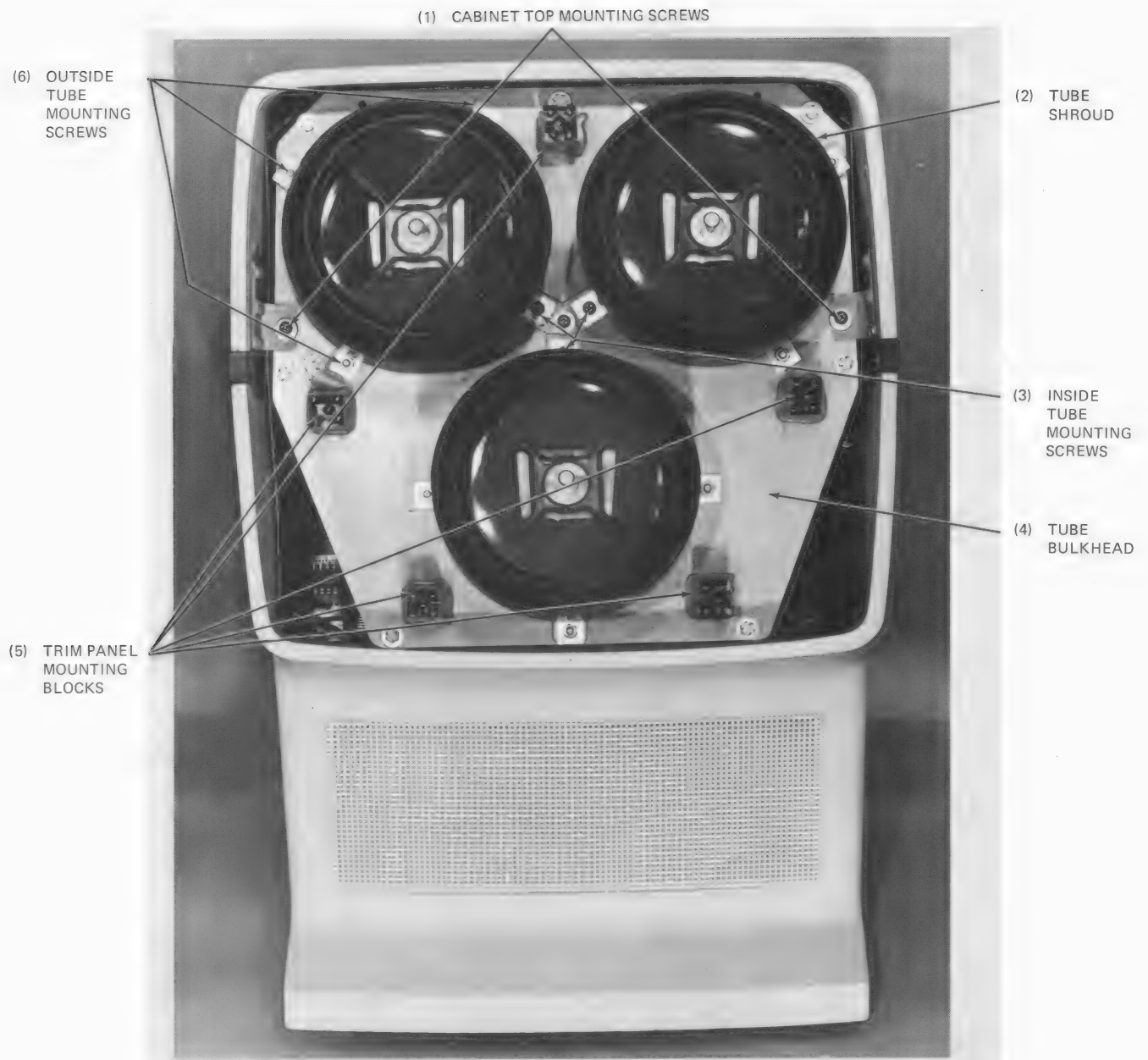


Figure 4-2. FRONT VIEW WITH FACE TRIM REMOVED

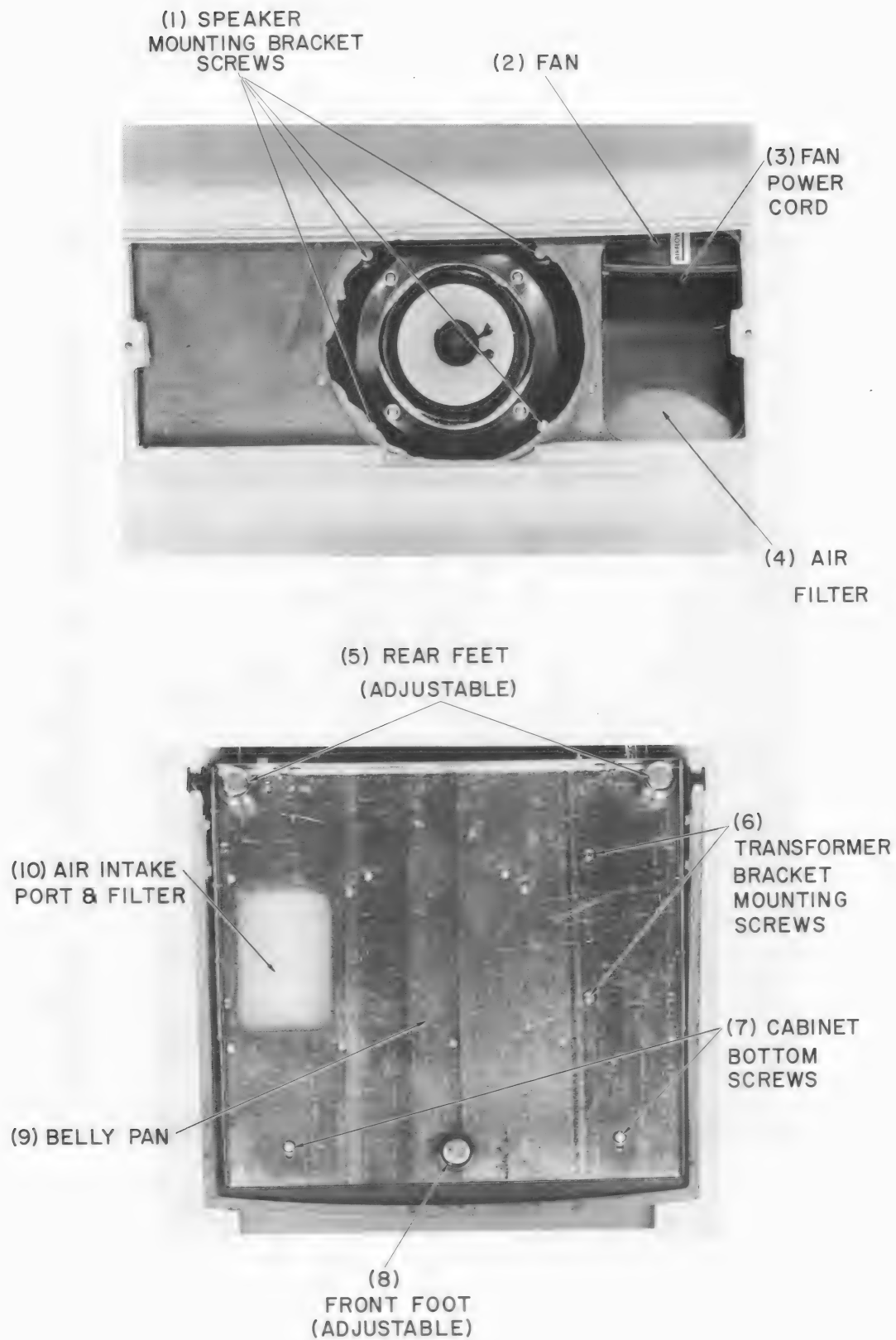


Figure 4-3. SPEAKER/FAN FRONT VIEW AND MAIN FRAME BOTTOM

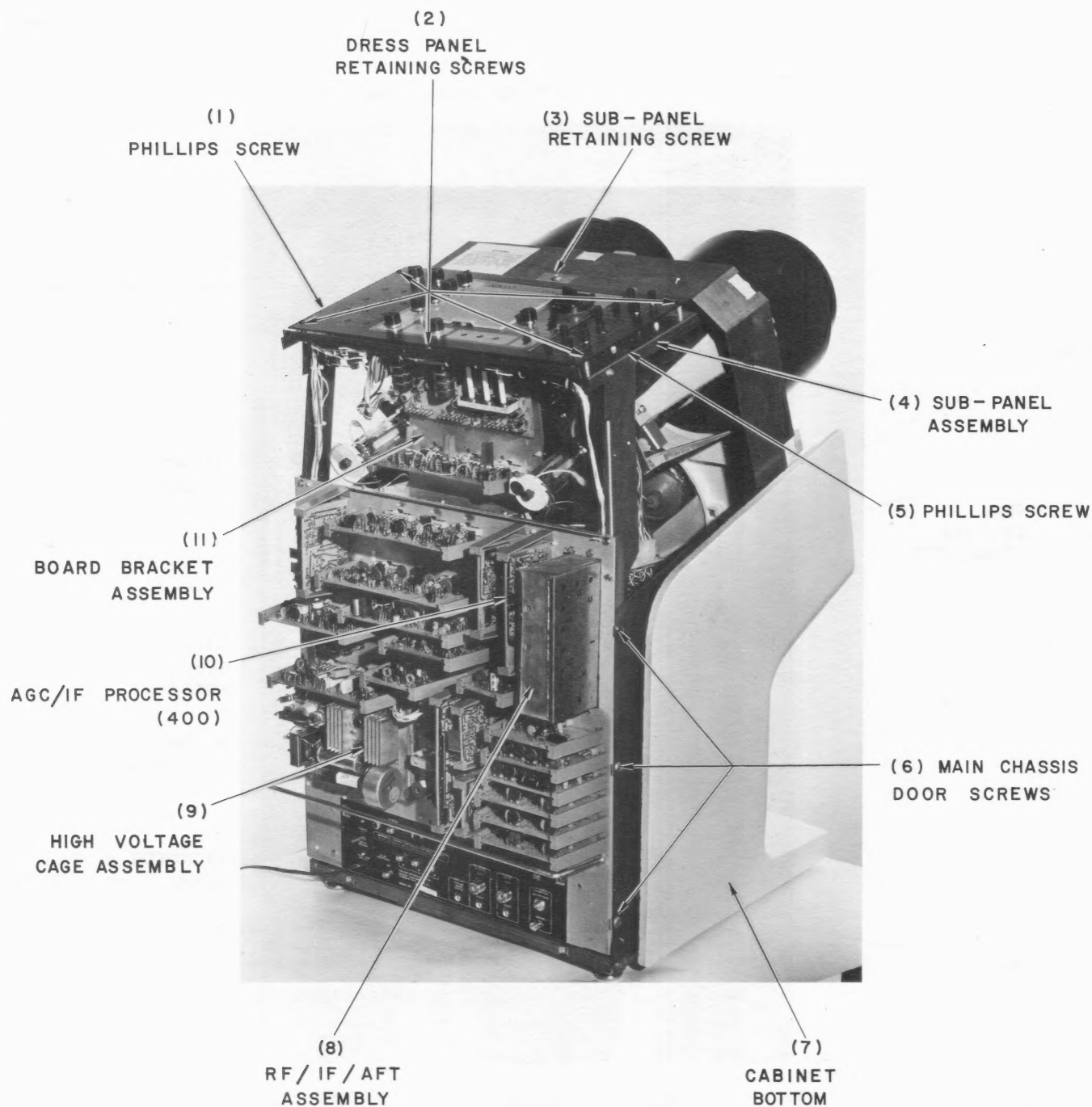


Figure 4-4. SIDE VIEW WITH CABINET TOP REMOVED

(1) TUBE GROUNDING STRAP

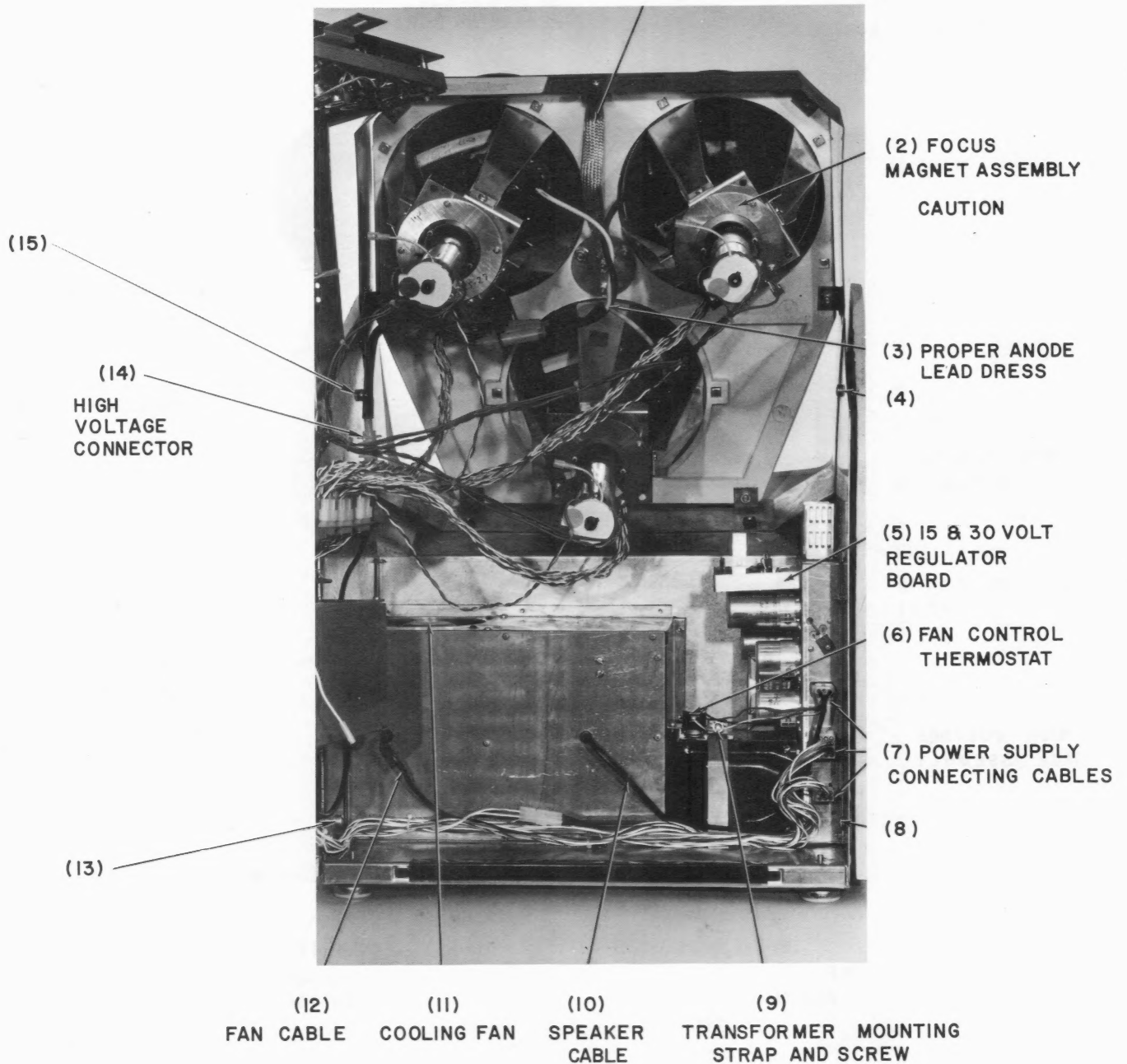
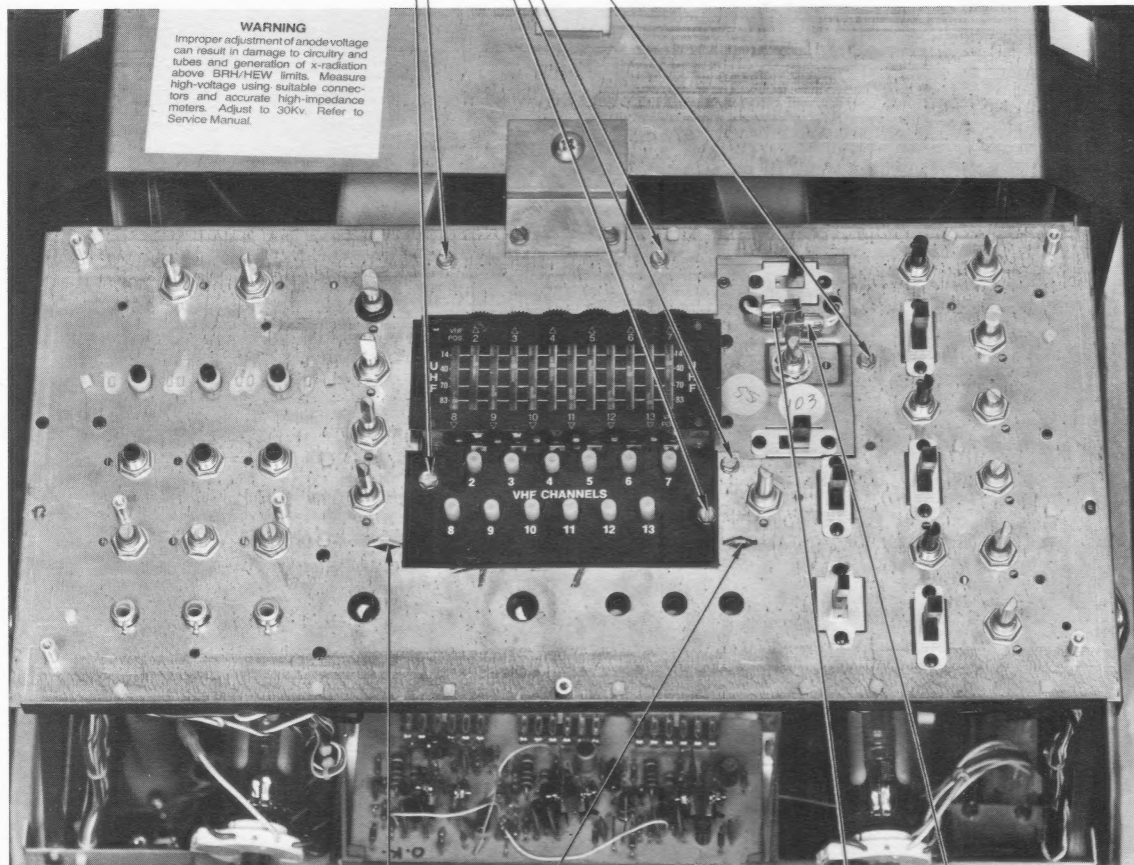


Figure 4-5. INSIDE VIEW WITH DOOR OPEN

(1) SECURING SCREWS FOR
TUNING CONTROL ASSEMBLY



(2)
VHF INDICATOR LAMP

(3)
UHF INDICATOR LAMP

(4)
TABS ON BOARD BRACKET ASSEMBLY
IN APPROPRIATE SUB PANEL SLOTS

Figure 4-6. SUB-PANEL ASSEMBLY - DRESS PANEL REMOVED

